

In Re Patent Application of:  
AHMED  
Serial No. 10/606,080  
Filing Date: June 25, 2003

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#### **REMARKS**

The Examiner is thanked for the thorough examination of the present application and for properly allowing Claims 21-48 and properly indicating the allowability of dependent Claim 20.

One sheet of replacement drawings for FIGS. 1(a) and 1(b) are submitted herewith to properly label the drawings as prior art. No new matter is being entered with the replacement drawing sheet.

Applicant has carefully reviewed the present application and has made several corrections to the specification and drawings. Applicant has also amended Claims 21 and 33 to address minor informalities.

Independent Claim 1 has been amended to more clearly define over the cited prior art by the incorporation of certain subject matter from dependent Claim 20, indicated as containing allowable subject matter. Dependent Claim 20 is cancelled for consistency. New dependent Claims 49-53 are added to restore the subject matter of previously canceled dependent claims, in view of the current amendments to independent Claim 1.

The patentability of Claims 1-4, 9-19 and 49-53 are discussed in further detail below.

#### **I. Claims 1-4, 9-19, and 49-53 Are Patentable**

Amended independent Claim 1 is directed to a method for electromagnetic processing of an input wave. The claim recites receiving, at a device having at least two segments, a

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modified signal derived from two or more signals that represent the input wave when combined. The claim also recites regulating the modified signal across one segment using a digital signal containing a characteristic of one of the two or more signals, and regulating the modified signal across another of the segments using another digital signal containing a characteristic of another of the two or more signals.

Independent Claim 1 was also amended to remove the recitation that wherein one or more of the segments is independently controlled as a power amplifier by a portion of the two or more signals that represent the input wave to contribute power to an output signal. Claim 1 was also amended to remove the recitation of generating the output signal by combining power outputted from one or more of said segments using one or more selected from the group consisting of power transformers, quarter-wave transmission lines, discrete LC components, and Pi-networks.

Nevertheless, independent Claim 1 was amended to include the recitations of dependent Claim 20, indicated as containing allowable subject matter. More particularly, Bengtsson was cited as disclosing a method for electromagnetic processing of an input wave including received a modified signal derived from two or more signals that represent the input wave when combined. Applicants submit that Bengtsson and Kornfeld et al. fail to teach or suggest all of the recited features of the claimed invention. Bengtsson and Kornfeld et al. fail to teach or suggest receiving, at a device having at least two segments, a modified signal derived

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from two or more signals that represent said input wave when combined; and regulating the modified signal across one segment using a digital signal containing a characteristic of one of the two or more signals, and regulating the modified signal across another of the segments using another digital signal containing a characteristic of another of the two or more signals. None of the other prior art supplies these critical deficiencies of Bengtsson and Kornfeld et al. Accordingly, it is submitted that amended independent Claim 1 is patentable. Its dependent claims, which recite yet further distinguishing features of the invention, are also patentable and require no further discussion herein.

## II. CONCLUSIONS

In view of the amendments to the claims and the arguments provided herein, it is submitted that all of the claims are patentable. Accordingly, a Notice of Allowance is respectfully requested in due course. Should any minor informalities need to be addressed, the Examiner is encouraged to contact the undersigned attorney at the telephone number listed below.

Respectfully submitted,



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